**Phase 1 Achievements:**

**Research**

Interact with farmers, come up with solutions through farmer field schools through participatory action research

1. Socio-economic, partnerships, markets and R4D platforms: Baselines have provided a good picture on farmers conditions; Platforms established (at community level: Chiefs, women leaders, land owners, school teachers, assembly men and farmers); Early adoption studies, preliminary results of cost benefit analysis of agricultural technologies; created farm typologies and conducted trade-off analyses
2. Crops: Identified improved varieties from cereals, legumes and vegetables; some farmers have access; conceptualization of technology packs that demonstrates practical lessons for farmers (similar communities, same sites), testing several technologies across different regions; identification of adopted technologies: dual purpose cowpeas for food and feed; early maturing maize varieties; promising cropping systems with strip cropping (cereal and legumes), or cereal-vegetable cropping systems; Good agronomic practices for production of cowpea and soyabean; soil fertility management regimes;
3. Livestock/Fodder: Baseline survey report on rural pig production and rural poultry production; Housing package for intensive poultry production; ILRI tested the FEAST tool on characterizing feed resources; feeding and health packages for pigs and poultry; package for reducing mortality of guinea fowl keets;
4. Characterization of land use systems within farming communities, targeting interventions for erosion reduction, successful integrating with crops; identify number of hectares that can be improved, number of people who can be beneficiaries; built technical capacity and research capital to collect data; soil and water management interventions;
5. Conducted baseline studies to document magnitude of malnutrition within project areas; initiated community intervention trials; ag production with behavior change communication and see if this will help children; publications out of baseline studies; Policy brief booklet which will serve as a guide for non-technically inclined audiences; Tested afla-safe technology to curb aflatoxin
6. Integrated crop-livestock package that incorporates maize and small ruminants production

**Partnerships/ Institutional capacity building**

1. Able to put together a multi-stakeholder, multi-institutional partnerships for research; organize numerous multi institutional meetings.
2. Trained 25 graduate students
3. More than 3000 farmers exposed to various technologies in the technology parks
4. Women at community level were trained on nutrition (more than 100 women)
5. Improved relationships and inter-sectorial collaboration has been enhanced e.g. Ghana Health Services with MoFA; Universities.

**Loose ends that need to be strengthened (How can this be effected: will help jumpstart Phase 2 insights)**

1. Integration of the various research Themes and among partners can be strengthened: Integration within a field, in a community and at institutional levels
2. How well can the technologies be adopted and disseminated to wider areas
3. Livestock components are not emphasized in the Program: Ruminants, non-ruminants to create demand for forage which in turn links to nutrition
4. Women preferred technologies including livestock
5. Soil component is not prominent enough
6. Joint development of research protocols??
7. Gender in research needs to improve
8. Data management